### ELECTRIC TRACTION:

### INTERESTING TESTS TO BE MADE AT ST. LOUIS FAIR.

\_\_\_\_\_ Experiments Designed to Determine the Limits of This Form of Transportation-Three Classes of Exhibits.

The world's fair show in progress at Bt. Louis will doubtless be more than a mute show of the accomplishments of men. It is intended by the managers that a practical turn be given to as many of the exhibits as possible, to the end that the world may be benefited by the adoption of whatever is best and most suitable in manufactures, the arts and science.

One of the most valuable features of auth great industrial exhibits as that now being held is the series of elaborate tests-of machinery and general industrial appliances. These are carried out by boards consisting of some of the best known experts in their respective departments and the special facilities. afforded, the magnitude of the plants upon which the tests are made and the abundance of time available, render the results of the highest scientific and commercial value

Among the most elaborate of these tests are those that have been projected by the Louisiana exposition commission in connection with electric traction. These are to be divided into three classes. First, those which will be made in the Electricity building; secfond, those made on special tracks laid for the purpose within the exposition grounds, and, lastly, a series of trials which will be carried out on a lengthy stretch of line outside of the grounds to throw further light upon the question of high-speed traction. The experiments are intended to cover in a very complete way the equipment and represation of the city and suburban railroads, of interurban roads and the operation of heavy standard trains, such as run on the trunk railroads of the \*country

The tests that are made within the Electricity building will be, to all intents and purposes, shop tests, the various materials and plant selected being subdected to the same inspectors and controlled by the same rules an arrangemer. which will make it possible to coordinate and compare results in a and satisfactory manner. The tests carried on outside the building are to be made under actual operative conditions. It is expected that all the great electrical manufacturing companies will be represented, and a more complete collection of electrical plants and apparatus will be gathered together than was ever before assembled. It is hoped to supplement and carry to an even more advanced point the valuable high-speed electrical tests made last year on the Berlin-Zossen line when, it will be remembered, a speed of over 130 miles an hour was

# JAP MAID'S ENTICING AD.

#### Picture Charms and Advantages in Alluring Phrases in Tokio Paper.

A Japanese maid can be as poetic and picturesque in search of a husband as she is in everything else. A matrimonial advertisement printed in Toklo reads:

-- am a very pretty woman, with locks thick and wavy, like the clouds. My face has the brilliancy and satin texture of the flowers, my figure is flex:ble like the weeping willow, and my eyes have the curve of the crescent moon. I have enough fortune to enable me to walk through life, the hand of my beloved one in mine, con--templating the flowers by day and the moon by night. If this meets the eye of an intelligent, agreeable, educated, bandsome gentleman of good taste, I will unite myself to him for life, and share with him later the pleasure of being buried together in a tomb of rose-colored marble"

The latest census shows 346,590 mar-Tiages in Japan in the year. Not one bride was over 22 years old. Fortytwo were only 15, 759 were 16, 5,484 were 17, 17,496 were 19 and 16,400 were 20.

# HE HAD AN ALARM CLOCK.

### Napoleon Carried the Timepiece with Him on His Great Campaign.

Another legendary idol has been shatteres. It has been accepted as one of the proofs of Napoleon Bonaparte's extracedinary mental power that he could go to sleep at any moment and wake up at any set hour. Now it has been disecovered that he depended for waking on an alarm clock. Among the effects of Princess Mathi'da, his niece, who died recently, has been found a timepiece made by the celebrated clockmaker of the first empire period. Abraham Beguat, which, there is evidence to show, the "little corporal" carried with him on his campaigns. The case is of gilded brouge, handsomely engraved. There are eight dials, indicating the true time, mean time, phases of the moon securits minutes, hours, day, month and year, It strikes hours and quarters. Attached

### is a small metallic thermometer. A Busy Session.

Among the many articles lost and fitally found in the Odeon at St Louis. -during the convention of the General Federation of Women's Clubs, were three diamond ring settings, eight chain purses, several coats, seven fans, 33 banckerchiefs, six veils, two pairs of go corimmed eyeglasses and 12 chamols reacer back. Evidently, remarks the Re; this of that city, "there was somethick doin'."

### MISSIONS IN MOUNTAINS.

How the Work Is Carried On Among the Hardy People of Kentucky, Tennessee and Virginia.

Few people know that there are about 3,000,000 mountaineers in the Alleghenies and Cumberlands, and fewer realize that hundreds of thousands of them are practically without education-

or religion

These are not degenerate people, but are a brave, hardy, independent race of Scotch-Irish and Anglo-Saxon ancestry. There are no finer people naturally on the continent. In their inaccessible mountains they have simply been passed by.

In 1897 a company of Christian men and women organized a mission to send the Gospei to these long-neglected highlanders. This mission began in 1898 with one missionary, who went to a county in the Cumberlands, of Kentucky, which did not have a single church in it of any kind.

In the past year they sent over 80 preachers and teachers to the mountains of Tennessee, Kentucky. North Carolina and Virginia. These missionaries have made over 7,000 visits to the homes of the poor, hald 2,125 public services, taught 123 Sababth schools. with 3,271 pupils: 21 day schools, with 775 pupils; had over 500 confessions of faith, and given away thousands of Bibles books, tracts, etc., to the poor, besides some 25 boxes and barrels of

clothing The society has built and opened the Log college, in the Kentucky Cumberlands, 25 miles from any railroad, and its enrollment was 147 students for the first session. It is building another college in the Great Smoky mountains of Tennessee and North Carolina. It publishes a monthly paper for the highlanders and their friends.

During the last year it received over \$10,000 from people in all churches, and almost in all countries, and never took up a collection from any church. It closed the year without owing a dollar. having paid every missionary at the end of every month.

### ANT KILLS BOLL WEEVIL.

#### Discovery, of Great Importance to Cotton Growers, Announced by Department of Agriculture.

The department of agriculture has announced that an ant has been found in Guatemala that is an effective enemy of the boll weevil. It will be immediately introduced into the cotton states. The greatest significance is attached to the discovery, which was made by O. F. Cook, the botanist in charge of the tropical agricultural investigations of the bureau of plant industry. Cabled instructions have been sent to him to report immediately to the department what assistance he needs in the way of men and money.

Mr. Cook's investigations have been in more or less accessible regions in the province of Alta Vera Paz, Guatemaia. The weevils are present there. but the investigations show that they are unquestionably kept in check by the presence of an active enemy in the shape of a large reddish-brown ant which is attracted to the cotton by the food which it secures from sets of floral nectaries: Mr. Cook's investigations show that these ants spread themselves over fields of cotton four or five to a plant, and that they are constantly engaged in the destruction of the boll weevils. Mr. Cook reports that the adrqit and businesslike way in which the weevil is disposed of seems to prove beyond question that the antis, by structure and by instinct, especially equipped for the work of destruction.

# MICE BREAK UP MEETING.

#### Host of Rodents Invades Assembly of Spinsters and It Adjourns Sine Die.

Mice demoralized the spinsters' club of Germantown, Pa., and brought to an abrupt conclusion a meeting held to decide "How to be happy though married." A score of positive young women applauded Miss Gertrude Mauser, the secretary, when she warned her fellow members to "beware of that bad, bad monster, man."

A moment later a distinct squeak was heard outside of the little room in which the meeting was being held. The fair speaker hesitated. Another squeak interrupted her. Then came a scream from a girl in the rear of the hall. She jumped upon a chair and cried: "A

mouse-oh, oh-a mouse!" Mice-dozens of them, a girl said afterward-were by this time scurrying around the floor of the room. The screams increased. The club women got as far from the floor as possible, and, clutching their skirts, jumped from chair to chair, raced through the door,

and down the stairway. As they emerged from the building a score of youths' faces were seen peeping around the corner. The owners of the faces, aroused by the declaration of the Spinsters' club that marriage is a failure, had turned loose a number of mice in the hall. The meeting adjourned indefinitely.

Alum in Colorada Alum is one of the lates, mineral substances of raine to be added to the list redited to Colorado A blanket deposit, four feet thick and of great width, has been discovered a few miles east of Florence, and it is pronounced to be of high commercial quality. This is the first discovery of alum in Colorado.

# Origin of the Fad.

The latest fad among Yale students is going barefooted through the streets of New Haven It is supposed, says the Chicago Record-Herald, to have been started by some young gentleman whose father could not be reached by telegraph.

### AID TO MATRIMONY.

LATEST INNOVATION OF THE SALVATION ARMY.

Couples Wishing to Wed May Do Se on a Capital of \$12, Which Includes Trousseau and Furniture for 4-Room Flat.

The most remarkable of all innovations yet introduced into New York city by the Salvation Army is one which is in effect a "first aid to matrimony" bureau. Through this bureau couples that wish to marry can get furniture for a four-room flat for ten dollars, the bridegroom can get a wedding suit for one dollar, and the bride obtain a "trousseau" for the same amount. The "first aid to matrimony" bureau is an important part of the regularly organised work of the army sindustrial home. It is there that Cupid's assaults on the heart are robbed of terror by placing within the reach of the poorest of wounded ones a means of living together, And what is true of the institution located in Hell's Kitchen is also true of two Salvation Army industrial homes in Brooklya and 50 others scattered throughout the country.

The work of fitting out brides and bridegrooms is made possible by the Salvation Army's system of collecting cast-off clothing, furniture and household goods from the homes of the wealthy and well to do. These collections fall within the province of the industrial home. At the one in Hell's Kitchen a large furniture van and large single horse wagons are maintained for the purpose of collecting all the clothing thus obtained. It is disposed of at the home, most of it being sold at auctions, which are held twice a day. But the furniture and household goods are placed on sale at definitely fixed prices in two stores, which have been opened for this object.

At the homes and at both of the stores brides and bridegrooms are favored customers. They do not have to attend the auctions to obtain clothing, and at the stores they get the pick' of such furniture as there is on hand.

One dollar entitles the bridegroom to

a presentable suit of clothes, a stout pair of shoes, a decent hat, and all the white shirts and underclothing that he needs. For one dollar the bride usually gets a silk or satin dress that once graced the form of some woman in high life." and is little the worse for wear, shoes and a hat or bonnet that is carefully selected as most becoming, and all the underclothing that she needs. Then comes the payment of ten dollars and a visit to one of the stores, where the young couple apply themselves with enthusiasm to the task of fitting up their home-

A parlor suit, a bedroom suit, and a dining-room suit, kitchen utensits bedding, dishes, carpets, and a few pictures are included in the price, ten dollars.

#### EACH HAD SAME THOUGHT. Story of the Singular Coincidence in the Lives of Twin Brothers in England.

One of the strangest coincidences on record is chronicled in an old English publication giving reminiscences of odd happenings in that country. Two country squires named Leaman and Lybridge - two thin, delicate-looking old men, twin brothers, 72 years old, with white hair, very gentle and courteous in manner, red cutaway coats, white cords, black boots, caps and gloves." When past- 60 years of age, one night after hunting, one of them said to the other: "I have been thinking neither of us can have much longer to live in this world, and it will be a terrible thing for the survivor to have to remain here alone. Don't you think one of us ought-

to marry?" "Yes," was the reply. "I have thought

so for a long time." "Well, do you know of any lady?": "Yes, I do. is there anyone you

fancy?" On comparing notes it appeared they had both selected the same woman, the

manager of a hotel at Okehampton. "Well," said one, "we have lived together all these years without a wry word, and it's a pity we should fall out at our time of life."

So they tossed up which should marry her. The winner rode down to Okehampton next morning and was accepted. All three lived together and the wife nursed both brothers in their last illness and was left their money.

#### TO CROSS IN IRON EGG. Norwegian Sailor Plans to Travel to St. Louis Exposition in a

. Curious Boat.

A Norwegian sailor named Brude intends to travel from Norway to St. Louis, for the exposition, in a curious boat of his own design. It is made of fron. and egg shaped, being entirely without an aperture, except that there is a small turret raising from it. with four windows, to enable the craft to be

steered. The vessel is being made at the Aaltsund mechanical works. It will have a sort of center board keel, capable of heing raised and lowered. It will be rigged with a mast and lateen sail Brude is looking out for three other Norsemen to go with him. He expects the journey will take two and a half

# Rise in Beef.

A cow in Connecticut-ate a stick of dynamite the other day, says the Washington Times, and the people in the neighborhood are wondering if they will see an illustration of the nursery rhyme about the cow that jumped over the

### COACHING FAD REVIVED.

Elite of Paris Forsake Auto for Horse and Parks Are Crowded with Fine Acting Teams.

The new complaint—at the same time chronic and acute-which is known as motoring, has not yet been prejudicial to the love of coaching, a time-honored tradition in France to fact, coaching is now more popular than at almost any time in the history of the country.

Go to the Bois in Paris any morning and a stream of elegant coachwomen may be seen driving past in vahicles of every size and shape. The old booded phaeton and the antiquated tilbury have been combined to form a light carriage, called by Paris coach builders a "morning cab," and much in request among ladies on account of the hood, which in case of a shower will protect their pretty toilets.

The four-wheeled duc spider, though not of the most modern build, is comfortable and in good style, and, drawn by a pair of strong showy horses, may be very effective. The "morning cart," which has driven out the dog-cart, is much liked on account of its light ness, but has for a woman the defect of making her look as if she were driving her groom seated beside her.

The men are not in the least behind the women in their love for driving. Every description of team and vehicle may be seen in all of the principal parks in the city at all times of the

The tendency of the Americans is to drive light traps with fast and fine-

acting teams drawing them. In addition to the equipages for individual use the big four-in-hands are also very popular, and many is the gay party seen enjoying an outing on the delightful drives. Short distance runs divide attention with endurance tests. As a result the road houses throughout the country are doing an unprecedented business.

### COLLEGE LADS GO HATLESS.

#### Students Without Headgear Becoming a' Common Sight on Campuses.

If precedents count for anything the chappies will go bareheaded this sum-

origin with the students of Harvard and Yale. And hatless boys are wandering over the campuses of these institutions since the warm days of May arrived

Quietly and mysteriously the word has been passed around among the Yale lade that hats, caps and head coverings of all sorts are out of order, and any fellow caught donning such is liable to summary punishment. In fact, it is to become a Yale tradition, dating from the apring of 1904, that after the Easter vacation no hats will be permissible on the Yale rampus to undergraduates Droves of men are to be seen on the main streets of the town after recitations are over each afternoon, parading in most cases without coats, and always without hats.

Recently a Vale man came near losing his best girl as the result of his stubborn observance of this new fad. He called in evening clothes to take her to the theater while she was on a visit to friends in

When they started to leave the house she suddenly realized that her escort was without his proper head covering. and she quickly called attention to his oversight. Stammeringly he tried to explain, but she refused to go until he had used every argument known to a Yale senior to convince her that if he wore a hat the students at the show would make fun of him. Then she went. But afterward she confided to a friend that if it had been in her home town wild horses could not have dragged her.

### STEER WEIGHS 4.000 POUNDS Monster Owned by Stock Raiger in

# Nebraska Is Said to Be the Biggest in the World.

Maj. A. V. Leiben, who resides at East Omaha, Neb., is the owner of what is supposed to be the largest steer ever. born. This monster weighs 4,000 pounds and was born on a Cheyenne river ranch. Owing to his immense size Maj Leiben calls him Jumbo.

Jumbo has done his share in advertising Nebraska. He has been shown throughout the United States and will be on exhibition at the St. Louis exposition, where his owner hopes to have the 1.700-pound, steer recently described in the newsparmers compete with Jumbo for first honors as to size or weight.

Thousands of persons from all over the world have visited Jumbo, yet none has ever claimed to have seen his equal. As Gen. Ames, of Minnesota, said: "Jumbo is the living wonder of the world."

This steer's measurements are a revelation to cattlemen. They are: Hams across under loin, 211/2 Inches; hams on sides, one foot ten inches: length of hams, two feet four inches; point of short ribs, six inches; one height six feet two inches; from ground to hip, five feet seven inches; tip of tall to nose, 12 feet ten inches; body length, eight feet; measurement around body at shoulder blade, nine feet two inches; around loin, ten feet two inches; hip to point of hip, 42 inches; hip to beimp bone, 31 inches; upper part of hind legs, 33 inches; front legs, upper part, 30 inches.

If one wanted to make a yoke for Jumbo he would require a piece of wood seven feet and len inches in length.

# Old Theory Proved.

A New York man was make crazy by consuming an oversupply of lobster. It was simply a case of "becoming what you eat," says the Chicago Record-Her-

### -PROVES HIS THEORY: +

### RESULTS OF EXPERIMENTS OF PROMINENT BIOLOGIST

#### Professor Loeb, of California University, Confirms Views on Animal Regeneration-Polarity Not in Cells.

Prof. Jacques Loeb, the biologist of the University of California, has succeeded through a series of experiments in confirming theories he has long held that the polarity observed in the regeneration of the animal body does not exist in the cells, but in she streaming of the regenerating process of the body, moving from the basal to the oral pole. In the bulletin bearing the title "Concorning Dynamic Conditions Which Contribute Toward the Determination of the Morphological Polarity of Organisms," which was issued at the univeraity recently/Dr. Loeb gives the results of his experiments.

The value of Dr. Loeb's experiments lies in his success to proving with animal bodies the theories that other acientists had advanced after experiments with plant life. In the eighteenth century two investigators, Du Hamel and Bonnet, arrived at the conclusion that certain sap currents are responsible for the fact that in plants at one end of a piece cut off from a branch an apex arises, and at the other end a root is formed. Du Hamel assumed that a rpecific sap causes the formation of roots, and that this sap moves basalward in the stem of the plant, while the fluids which give rise to the formation of

branches move upward. Dr. Loeb takes his cue from the resuits obtained in the investigations of these and other scientists. The idea that sap currents and the collecting of materials form the cause of regeneration and organ formation suggested to him a fruitful field of research. It was the general belief of scientific men then that the individual cells in the animal body are polarized, and that therefore, there is produced at the basal end organs different from those at the oral end. But the experiments with the plants led Dr. Loeb to believe that the same conditions obtained in animal life as in plant life, and so he pursued his investigations to prove the morphological polarity of the animal body.

# STUDENTS DO MENIAL WORK

#### Many Young Men of California Seeking Education Accept Places as Dishwashers.

Some interesting figures dealing with the student labor problem are shows in the annual report of the Young Men's Christian association of the University of California, which has Just been lasted. The association maintains a bureau for the assistance of young men seeking to support themselves while going through college, and every year from 100 to 200 positions are secured for them.

The association supplied students with 159 places during the year. Some idea of the demands may be gained from the statement that there were 263 applications for places, so that all could not be supplied. The cash value to the students of these; 159 places is conservatively fixed at \$5,183. Twenty-seven applications were received for places as dishwashers and cooks, though only ten were supplied. There were 21 applications for waiters places, half of them being supplied the value being \$1.750. Berkelej bousewives use: 31 students to help them clean house and gave them \$140, and 13 students took care of horses and milked cows Besides these mental places many other positions were filled by students as clerks and canvassers.

# WILL RAZE OLD HOUSES.

#### Former Dwelling of Duchess of Portsmouth, in London, Among Those Demolished.

A great clearance of old houses is being made at the southwestern corner of Lincoln's inn fields, in London, in pursuance of the Holborn-Strand improvement scheme.

The Crooked Billet, a very old tavern in Portugal street, has disappeared, and the Portugal Chambers, in Bear yard, are mearly level with the ground.

Perhaps the most interesting of all these buildings that has been demokished is the old brick fronted mansion. known as 2 Portugal street, said to have once been tenanted by Charles Il's favorite Louise de Kerouaille, created by him duchess of Portsmouth. This has been used for years as a workman's dwelling

In a front room on the first floor, said once to hare been a ballroom, is an artistic plaster calling, which is being carefully removed in pieces, to, be refixed in the Horniman museum at Dulwich. The larger thopas contain handsome carved wooden mantelpieces, and in the roof is a socket formerly used, so it is said, to hold the royal standard.

An Accommodation to Tipplers. There is a little saloon in Washington favorably known because of the quality of its ale and much frequented by representatives. This sign hangs over the

OLD BURTON XXXXX Parties desiring to drink more than four glasses of this fine beverage at a sitting will be taken home by the porter, if name is left with the bar-: tender

### A Suspicion.

It is a trifle suggestive, remarks the Indianapolis Journal, to learn that the countries to which we export our chann cotton seed oil are the ones from which we import our high-priced olive oil.

### GIRL HAS STRANGE POWER.

Weird Influence Credited to Russian Child-Plates Dance and Stones Fly Before Her.

An account of a phenomenon observed in a girl of 12 residing at Vladikavkas, in the Caucasua, has been communicated. to the Novoe Vremyn, the St. Petersburg

OFKAD. The girl is the daughter of a workdoor named Luba. It is stated that every object which she approaches begins to move. If she goes near a dresser with plates upon it they begin to dance, washing hung on a line flies off it, a bottle standing on a table is raised in the air, and, falling down, is broken, in 🔪 pieces, and stones lying on the ground leap in the air and full again.

The girl is perfectly healthy, and laughs at the occurrences called forth. on her appearance. No one can explain them, although a number of doctors and professors of physical science have been consulted.

The child's parents are very poor, and wish to send her out to domestic service, but she always loses her place owing to the assertion of ignorant people that she is possessed of a devil and that she should be sent to Father John of Cronstadt, in St. Petersburg, to have the demon exorcised.

At present the means are being colfected to send the child to St. Petersburg in order time ber marvelous magnetic powers may be examined by medleal authorities.

# COWS AND HENS COMBINE.

#### Between Layers and Bovines Minnesota Butter Will Be a Beautiful Tellow.

Az egg yolk butter coloring in the intes' substitute offered to butter-make m ers for the coal tar and aniline dye butter colorings which have been tabooed by Commissioner W W P McConnell, of the dairy and food department of Minnesota. The yolk of eggs, it is claimed, has been used as butter color by European butter makers for some time. It is claimed that the results are entirely satisfactory, the yellow animal fat of the yolk producing a fine color with no injurious effects

It was only recently that the attempt was made in the United States to substratute liquid egg yolk for other butter color. from missioner McConnell has recently received a sample of the new coloring and is investigating its value forward used recently by experts of the food commission, and the result was satisfactory. the burrer having an excellent color and being of unusually high quality.

Commissioner McConnell is not yet ready, however, to indorse the new butter color. He will keep the butter several weeks to ascertain whether the preparation of the figuid eag yolk is such as to allay decomposition that is induced easily in eggs. Mr McConnett wants to know about the preparation ofthe yellow liquid yolk. He fears that if the yolks remain sweet and pure some preservative, such as salicytic acid, or borax, is used in the preparation. If this be the case he will not allow york colored burrer in Minnsora

# ICEBERGS THREATEN SHIPS.

#### Huge Wanderers in Northern Seas Said to Be More Than Ordinarity Numerous This Sesson.

While the leeberg is a spectacle of sublime grandeur og a fluo clear day, store nor To regarded by the men who sail the seas. off the grand banks of Newfolthstand To these the immense scintillating mountains of the deep are a perpetual metate, and never were they larger or more numérous than at present as a consequence of the intg cold winter and a spring of blustering persistent gales, the worst for ten years.

The gigantic masses of ice are hoing carried south in the midst of mignty frozen fleids, which are turn from their arctic home and sent-carefulng across the wide waste of waters from Greenland. tq Labrador

Some of the steamship lines plying between England and Canada have been forced to abandon the Belle Isle route altogether, and they now utilize the less persions but sufficiently risky route round Cape Race.

Passengers on the mail boat plying to Labrador frequently count 20 or 30 icebergs off that coast in one day. Several of the Montreal liners plying via Bella Isle straits have had their bows stove in by colliding with these pinnacled masses, while earlier in the year ocean steamships to and from New York were obliged to deflect from their regular

# MUST DISPLAY PHOTOS.

#### New York Mayor Has Plan to Solve Peddler License Problem-Vanders Baise Cry.

Hereafter all the push cartipeddlers doing business in New York will be rest. quired to display their photographs on the sides of their carts." Notice to this effect has been served on the president. of the Peddiers' association by Mayor. McClellan. This is the mayor's own plan of solving the license problem, and preventing one cast from being used as a family affair

News of the order spread among the East side peddlers, and they loudly denounced it as an oppression. They immediately planned to march upon city hall with their wives and offspring and protest to the mayor. Twenty thousand peddlers are expected to be in line with their families. The peddlers boast of an average of tea to each family, and they expect to present an impressive appearance.

# How the Heart Works.

The normal heart beats about 10 times a minute, and throws two ounces of blood at each contraction.

# L'ABEILLE DE LA NOUVELLE-ORLÉANS